

# Single Event Effects Symposium

## FINAL CALL FOR PAPERS

This is the final call for technical papers for the 2000 Single Event Effects (SEE) Symposium. The SEE Symposium will be held at the Manhattan Beach Marriott in Manhattan Beach, California, on April 11 – 13, 2000. We invite papers addressing all aspects of SEE in microelectronic and photonic devices, circuits, and systems. Topics include (but are not limited to):

### ***Phenomena***

Upset, Transient, Latchup, Gate Rupture, Burnout, Destructive Effects in Bipolar Devices, Microdosimetric Effects, Multiple Event Upset, Dark Current, Error Propagation

### ***Basic Mechanisms and Modeling***

Destructive and Non-Destructive Effects, Effects of Size and Small Geometry, Effect of Operating Speed, Charge Transport and Collection, Impact of Circuit and Environmental Parameters

### ***Environments and Facilities***

Heavy Ion, Proton, and Neutron Test Facilities. Cosmic Rays, Trapped Protons, Solar Flares, Neutrons, and Other Planets Radiation Environments.

### ***Operational Regimes and Performance Data***

Systems and Devices at LEO to Geosynchronous and Beyond, High Altitude Aircraft, Terrestrial

### ***Electronic & Photonic Device Data***

Memories, Latches, Analog Circuits, Microprocessors, Optocouplers, DC to DC Converters, Sensors, Commercial and Hardened Components

### ***Systems***

Error Mitigation, Error Detection & Correction, Error Criticality Analysis

All interested personnel are invited to send a one-page abstract to [seesym@pop500.gsfc.nasa.gov](mailto:seesym@pop500.gsfc.nasa.gov) or mail it to Robert Reed or Jim Howard, NASA/GSFC, Code 562, Greenbelt MD, 20773, fax (301) 286-4699. E-mail submittals are encouraged. Abstracts should be received by March 20, 2000. It is our intent to publish a Symposium Proceedings subsequent to the meeting. Publication of your work is entirely voluntary. However, if you wish to have your presentations published, it is requested that your briefing charts be accompanied with either an abstract of no less than 500 words, or explanatory text for each slide. Alternatively, a short paper (less than four pages in length) is also acceptable. Please let us know your intent on publishing when submitting your initial abstract. The SEE Symposium will be unclassified and welcomes international participation. We would like to remind authors that they are responsible for obtaining clearances to present their work.

The registration fee is \$200.00. It must be received by March 20<sup>th</sup>, 2000 to avoid the late registration fee of \$50.00. Please go to the web site below for registration forms. Please make your reservations at the Manhattan Beach Marriott at (800) 228-9290. A special rate of \$105 per night was negotiated for symposium attendees. Please identify yourself as a SEE Symposium attendee when making your reservation. The hotel provides a complementary shuttle from LAX airport.

The Symposium is sponsored by the Defense Threat Reduction Agency, the NASA Electronics Radiation Characterization Project, the Aerospace Corporation, and TRW.

For More Information Please Visit the Symposium WWW site at  
<http://radhome.gsfc.nasa.gov/radhome/SEE/seesym.htm>